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The CKAD exam is a hands-on, performance-based exam that tests the candidate's ability to deploy, configure, and manage Kubernetes applications. CKAD exam is designed to be challenging and comprehensive, covering all aspects of Kubernetes application development, including Kubernetes basics, application design and deployment, troubleshooting, and automation.

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Linux Foundation Certified Kubernetes Application Developer Exam Sample Questions (Q139-Q144):

NEW QUESTION # 139
You have a microservice that is deployed in a Kubernetes cluster, and you want to monitor its performance and health using Prometheus and Grafan a. How can you configure Prometneus to scrape metrics from your microservice and create dashboards in Grafana?

Answer:

Explanation:
See the solution below with Step by Step Explanation.
Explanation:
Solution (Step by Step) :
1. Enable Metrics in Your Microservice:
- Ensure your microservice exposes metrics through an HTTP endpoint using a library like Prometheus Client (for Java), Go metrics, or StatsD.
- Define metrics such as request count, latency, error rate, and other relevant performance indicators.
2. Deploy Prometheus:
- Deploy Prometheus using a 'Deployment and a 'Service'
- Configure Prometheus to scrape metrics trom the microservice by adding its endpoint to the 'scrape_configs' in the 'prometheus.yaml' file.

```
scrape_configs:
- job_name: 'my-microservice'
  static_configs:
  - targets: ['my-microservice-service:9100']
```

3. Create a Service for Prometheus to Access the Microservice: - Create a 'Service' of type 'ClusterlP' that exposes the microservice's metrics endpoint (usually port 9100). - Ensure Prometheus can reacn this service. 4. Deploy Grafana: - Deploy Gratana using a 'Deployment' and a 'Service' - Configure Grafana to connect to Prometheus as a data source. 5. Create Dashboards in Grafana: - Use Grafana's dashboard builder to create custom dashboards that visualize the metrics collected by Prometheus. - Add panels to display graphs, charts, and tables that show the performance and health ot your microservice. 6. Configure Alerts in Grafana: - Configure alerts in Grafana based on specific metrics and thresholds. - Set up notifications to alert you when critical issues arise with the microservice. Note: This approach provides comprehensive monitoring for your microservice. Prometheus scrapes metrics from the microservice, stores them in its time series database, and Grafana visualizes these metrics and provides alerts for potential issues. Example Prometheus Scrape Configuration:

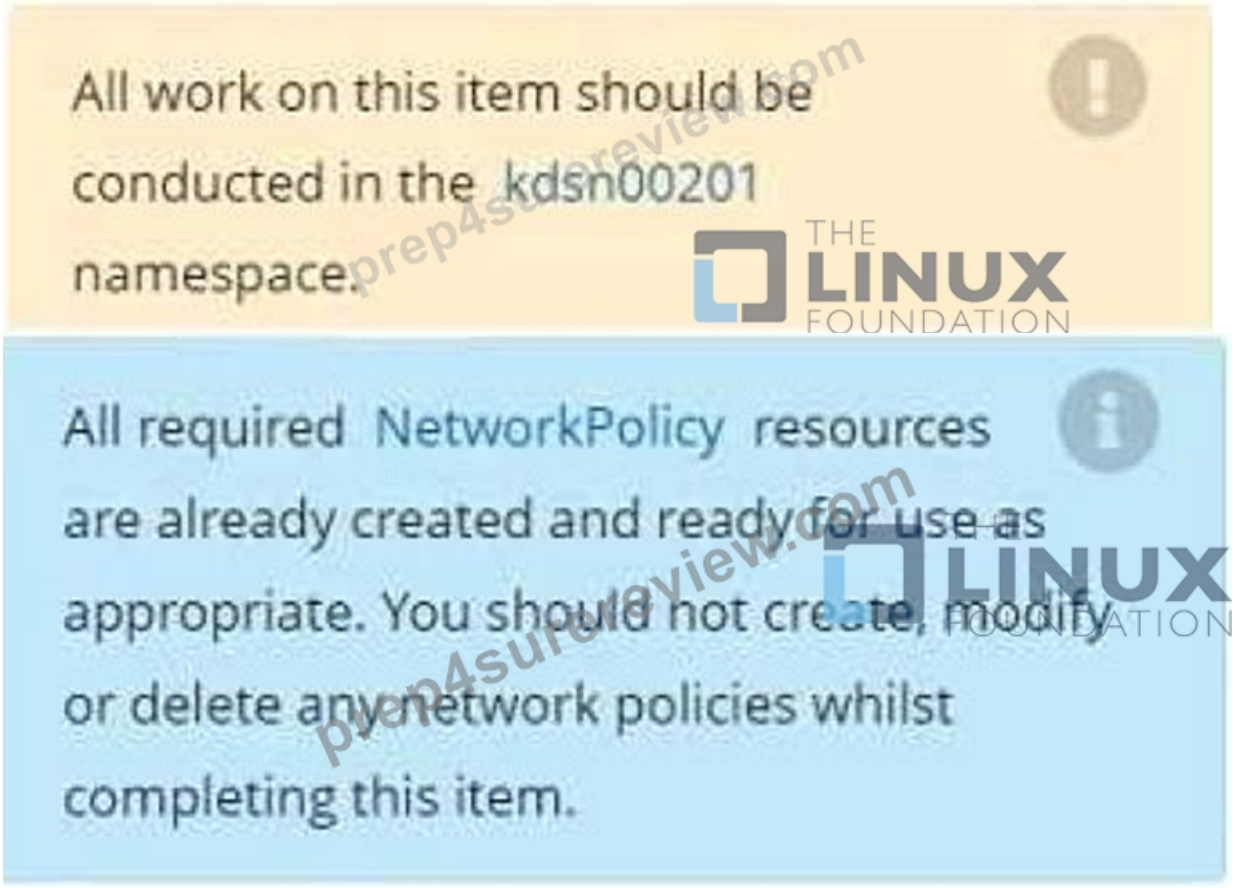
```
scrape_configs:
- job_name: 'my-microservice'
  static_configs:
  - targets: ['my-microservice-service:9100']
  # Optional: Use a service discovery mechanism to automatically detect microservice pods
  # discovery:
  #   kubernetes_sd_configs:
  #   - role: service
  #     names: ['my-microservice']
```

Example Grafana Dashboard: - Create a dashboard with panels that show the following metrics: - Request count per minute - Average request latency - Error rate - CPU and memory usage of the microservice container - Set up alerts to notify you it: - The request count exceeds a certain threshold - The average latency exceeds a certain threshold - The error rate exceeds a certain threshold - The CPU or memory usage exceeds a certain threshold,

NEW QUESTION # 140

Exhibit:

Task
You have rolled out a new pod to your infrastructure and now you need to allow it to communicate with the web and storage pods but nothing else. Given the running pod kdsn00201 -newpod edit it to use a network policy that will allow it to send and receive traffic only to and from the web and storage pods.



- A. Pending

Answer: A

NEW QUESTION # 141
You have a Deployment for a web application that uses a separate Redis cache pod for session management. You want to ensure that each web application pod can access a dedicated Redis instance for session management and avoid contention. Explain how you can use a PersistentVolumeClaim and StatetulSet to achieve this.

Answer:

Explanation:
See the solution below with Step by Step Explanation.
Explanation:
Solution (Step by Step) :
I). Create a PersistentVolumeClaim:
- Create a PersistentVolumeClaim (PVC) to request persistent storage for each Redis instance.
- Specify the storage size, access modes, and other requirements based on your needs.
- Example:

```
apiVersion: v1
kind: PersistentVolumeClaim
metadata:
  name: redis-pvc
spec:
  accessModes:
  - ReadWriteOnce
  resources:
    requests:
      storage: 1Gi
```

2. Create a StatefulSet: - Define a StatefulSet for the Redis pods. - Associate each Redis pod with a unique PVC, ensuring that each pod gets its own dedicated persistent volume. - Example:

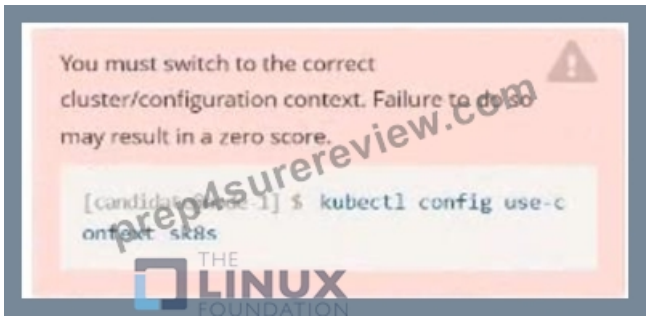
```
apiVersion: apps/v1
kind: StatefulSet
metadata:
  name: redis-statefulset
spec:
  serviceName: "redis-service"
  replicas: 3
  selector:
    matchLabels:
      app: redis
  template:
    metadata:
      labels:
        app: redis
    spec:
      containers:
      - name: redis
        image: redis:latest
        ports:
        - containerPort: 6379
        volumeMounts:
        - name: redis-data
          mountPath: /data
      volumes:
      - name: redis-data
        persistentVolumeClaim:
          claimName: redis-pvc
```

3. Configure the Deployment: - Denne tne web application pod Within a Deployment. - Use a Service (e.g., 'redis-service') to access the Redis instances. - Make sure the web application's code can access the Redis instances using the service name. - Example:

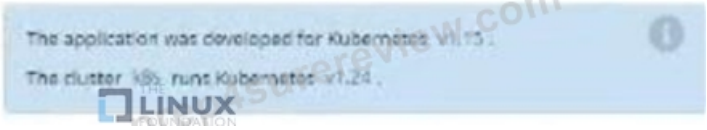
```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: webapp-deployment
spec:
  replicas: 3
  selector:
    matchLabels:
      app: webapp
  template:
    metadata:
      labels:
        app: webapp
    spec:
      containers:
      - name: webapp
        image: webapp:latest
        ports:
        - containerPort: 8080
        env:
        - name: REDIS_HOST
          value: "redis-service"
        - name: REDIS_PORT
          value: "6379"
```

4. Deploy and Test - Deploy tne PersistentVolumeClaim, StatefulSet, and Deployment. - Test the web application to ensure that each pod can access its own dedicated Redis instance and session data is correctly managed Without contention. 5. Important: - StatefulSets ensure that each pod has a unique hostname and persistent storage, making them suitable for managing stateful applications. - This approach helps isolate Redis instances, preventing session data conflicts and ensuring the scalability of your web application. ,

NEW QUESTION # 142
Refer to Exhibit.



Task:
1) Fix any API depreciation issues in the manifest file -/credible-mite/www.yaml so that this application can be deployed on cluster K8s.



2) Deploy the application specified in the updated manifest file -/credible-mite/www.yaml in namespace cobra

Answer:

Explanation:
Solution:

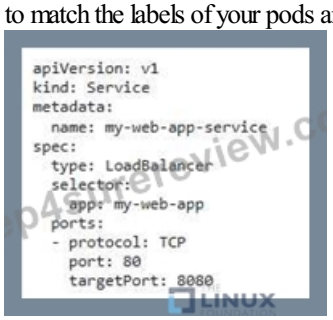
NEW QUESTION # 143
You have a web application that requires a dedicated load balancer to handle incoming traffic and distribute requests across multiple pods- HOW can you set up a dedicated load balancer in Kubernetes using a 'Services and Ingress?

Answer:

Explanation:
See the solution below with Step by Step Explanation.
Explanation:
Solution (Step by Step) :
1. Create a Deployment:
- Create a 'Deployment for your web application.
- Specify the number of replicas, image, and any other necessary configuration.

```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: my-web-app
spec:
  replicas: 3
  selector:
    matchLabels:
      app: my-web-app
  template:
    metadata:
      labels:
        app: my-web-app
    spec:
      containers:
        name: my-web-app
        image: example/my-web-app:latest
```

2. Define a Service: - Create a 'service' to expose your 'Deployment' and provide a load balancing endpoint. - Specify the 'selector to match the labels of your pods and use 'type: Load8alancer' to request a dedicated load balancer from your cloud provider.



```
apiVersion: v1
kind: Service
metadata:
  name: my-web-app-service
spec:
  type: LoadBalancer
  selector:
    app: my-web-app
  ports:
  - protocol: TCP
    port: 80
    targetPort: 8080
```

3. Configure an Ingress: - Create an 'Ingress' Object to handle incoming traffic and route it to the correct service. - Specify the 'hostname' for your web application and the 'backend' service to which the requests should be forwarded.

```
apiVersion: networking.k8s.io/v1
kind: Ingress
metadata:
  name: my-web-app-ingress
spec:
  rules:
  - host: my-web-app.example.com
    http:
      paths:
      - path: /
        pathType: Prefix
        backend:
          service:
            name: my-web-app-service
            port:
              number: 80
```

4. Apply the Configuration: - Apply the 'Deployment', 'service', and 'Ingress' definitions using 'kubectl apply' or 'kubectl create' 5. Access Your Application: - Once the 'Ingress' is configured, you can access your web application using the specified hostname (e.g., 'my-web-app-example.com'). The load balancer will distribute tne traffic across the available pods of your web application. Note: The 'type: LoadBalancer' service will create a dedicated load balancer in your cloud provider, which will be accessible through an external IP address. The 'Ingress' object will map the hostname to this load balancer, routing traffic to your web application pods.

NEW QUESTION # 144

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